

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/578, 126
Source: JFWP
Date Processed by STIC: 05/16/2006

ENTERED



IFWP

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/578,126

DATE: 05/16/2006

TIME: 09:31:47

Input Set : A:\11887-8 US Sequence Listing.txt
 Output Set: N:\CRF4\05162006\J578126.raw

4 <110> APPLICANT: Perez, Pascual
 5 Gutierrez-Marcos, Jose
 6 Dickinson, Hugh
 8 <120> TITLE OF INVENTION: MEG1 Endosperm-Specific Promoter and Genes
 10 <130> FILE REFERENCE: 11887*8
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/578,126
 C--> 12 <141> CURRENT FILING DATE: 2006-05-02
 12 <150> PRIOR APPLICATION NUMBER: PCT/EP04/052760
 13 <151> PRIOR FILING DATE: 2004-11-04
 15 <150> PRIOR APPLICATION NUMBER: EP 03292739.4
 16 <151> PRIOR FILING DATE: 2003-11-03
 19 <160> NUMBER OF SEQ ID NOS: 64
 21 <170> SOFTWARE: PatentIn version 3.2
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 370
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Zea mays
 29 <220> FEATURE:
 30 <221> NAME/KEY: misc_feature
 31 <223> OTHER INFORMATION: promoter Meg1-1
 33 <400> SEQUENCE: 1
 34 agccagaatt gtaaccttgg gtttccac acctcaaata gatatggata tagttatata 60
 36 gatagatata gcaaattcac caaataatat agaggtatag atatagatat aacaagggt 120
 38 atatatata gatagatata atagaagata tagatggata gatagatatg atagaataga 180
 40 atagataact tacaattttgc tctaaaagag actaaatcac tgctaagttt ggtctttgg 240
 42 gaatacttgc cagtgaatttgc gtttccgcta tagtatata ataaatgtatc actcttctag 300
 44 gattatagta tatataagta tacactcttc taggatcggt cgtgaggagt tccttaacat 360
 46 ttcttgcgac 370
 49 <210> SEQ ID NO: 2
 50 <211> LENGTH: 415
 51 <212> TYPE: DNA
 52 <213> ORGANISM: Zea mays
 55 <220> FEATURE:
 56 <221> NAME/KEY: misc_feature
 57 <223> OTHER INFORMATION: promoter Meg1-2
 59 <400> SEQUENCE: 2
 60 atgagctctc gacacaggta ggttagttagta gagccagaat tgtaaccttgc gggtttccca 60
 62 cacctcaaat agatataat atagggatat agatagatat agcaaattca ccaaataata 120
 64 taggggtata gatatagata taagaagggg tatagatata gatatagata tatagaagat 180
 66 atagatagat agatagatat gatagaatag ataacttaca atttgtctca aaagaaaacta 240
 68 aatcactgct aagtggag tagcataatct ttggtaata cttgcttagtg aattggttc 300
 70 cgctatagta tatataatata agtatacact cttctaggat tatagttat atatataat 360
 72 aagtatacac tcttctagga tcaatcgta ggagttcatt aaattgtctt gcgac 415

(CPg-6)

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/578,126

DATE: 05/16/2006

TIME: 09:31:47

Input Set : A:\11887-8 US Sequence Listing.txt
 Output Set: N:\CRF4\05162006\J578126.raw

75 <210> SEQ ID NO: 3
 76 <211> LENGTH: 376
 77 <212> TYPE: DNA
 78 <213> ORGANISM: Zea mays
 81 <220> FEATURE:
 82 <221> NAME/KEY: misc_feature
 83 <223> OTHER INFORMATION: promoter Meg1-3
 85 <400> SEQUENCE: 3
 86 tcgaggtcga cggtatcgat aagcctcaaa tagatataga tatagggata tagatagata 60
 88 tagcaaattc accaaataat ataggggtat agatatacat ataagaaggg gtatagat 120
 90 agatatacat atatagaaga tatagataga tagatagata tgatagaata gataactac 180
 92 aattttgtct aaaagaaact aaatcactgc taagtttggta gtagcatatc tttggtgaat 240
 94 acttgctgtt gaattgggtt ccgtatagt atatatata aagtatacac tcttcttagga 300
 96 ttatagtata tatatataata taagtataca ctcttcttagg atcaatcgtg aggagttcat 360
 98 aaaattgtct tgcgac 376
 101 <210> SEQ ID NO: 4
 102 <211> LENGTH: 121
 103 <212> TYPE: DNA
 104 <213> ORGANISM: Zea mays
 107 <220> FEATURE:
 108 <221> NAME/KEY: misc_feature
 109 <223> OTHER INFORMATION: nucleotides 1 to 121 of promoter Meg1-1
 111 <400> SEQUENCE: 4
 112 agccagaatt gtaacccttgg gttttccac acctcaaata gatatggata tagttatata 60
 114 gatagatata gcaaattcac caaataatag agaggtagat atatagatata aacaagggt 120
 116 a 121
 119 <210> SEQ ID NO: 5
 120 <211> LENGTH: 414
 121 <212> TYPE: DNA
 122 <213> ORGANISM: Zea mays
 125 <220> FEATURE:
 126 <221> NAME/KEY: misc_feature
 127 <223> OTHER INFORMATION: MEG1-1 cDNA
 129 <400> SEQUENCE: 5
 130 cgtgaggagt tccttaacat ttcttgcgac atggagtaca aaaagagggt ggatgcgcta 60
 132 gtgttttct ctttacttct cctaggatac tttgctgctc atgcgcattgg ggctgaagaa 120
 134 ggaattttgc gaaaaaaaag agcacaatgc gctcaagggt ttcttccatg caaagataac 180
 136 aagtgcact gttgcattgg gggccgaact catgattgct actatacgtt ggctcagtgt 240
 138 agtcatgcat gcttctaattt aaaaattaag atcactgttt ttatatacaa tgtaatggta 300
 140 ggcataatgcta ttaataatac ataaggaaat tttagtttg gtattagaat ttcttgatt 360
 142 gacgaaattt agtcagaccg atactagagg cttaaaaaaa aaaaaaaaaa aaaa 414
 145 <210> SEQ ID NO: 6
 146 <211> LENGTH: 75
 147 <212> TYPE: PRT
 148 <213> ORGANISM: Zea mays
 151 <220> FEATURE:
 152 <221> NAME/KEY: MISC_FEATURE
 153 <223> OTHER INFORMATION: MEG1-1
 155 <400> SEQUENCE: 6

RAW SEQUENCE LISTING

DATE: 05/16/2006

PATENT APPLICATION: US/10/578,126

TIME: 09:31:47

Input Set : A:\11887-8 US Sequence Listing.txt
 Output Set: N:\CRF4\05162006\J578126.raw

157 Met Glu Tyr Lys Lys Arg Val Asp Ala Leu Val Phe Phe Ser Leu Leu
 158 1 5 10 15
 161 Leu Leu Gly Tyr Phe Ala Ala His Ala His Gly Ala Glu Glu Gly Ile
 162 20 25 30
 165 Leu Arg Glu Lys Arg Ala Gln Cys Ala Gln Gly Phe Leu Pro Cys Lys
 166 35 40 45
 169 Asp Asn Lys Cys Tyr Cys Cys Ile Gly Gly Arg Thr His Asp Cys Tyr
 170 50 55 60
 173 Tyr Thr Met Ala Gln Cys Ser His Ala Cys Phe
 174 65 70 75
 177 <210> SEQ ID NO: 7
 178 <211> LENGTH: 383
 179 <212> TYPE: DNA
 180 <213> ORGANISM: Zea mays
 183 <220> FEATURE:
 184 <221> NAME/KEY: misc_feature
 185 <223> OTHER INFORMATION: Megl-2 cDNA
 187 <400> SEQUENCE: 7
 188 tcggcacgag gctacatgga gtacagaaag agggtggatg cgctagtgtt tttctcgta 60
 190 cttctccctcg gatactttgc tgctcatgca catggaaagg gtcatgtcac agatgtatgc 120
 192 ggtgtttcta ctccagctaa agaaggaaatt atgcaaggaa acggagcacg atgcgttgta 180
 194 gggtttcctc catgcaaaga taacaagtgc tactgctgca ttggggggcg aactcatgct 240
 196 cgctactcta cgatggctga gtgtagacat gcctgcttct aaacacaaat taagatcgct 300
 198 gttattatat acattgtaat gtaggtaaat gctattaata atatatggta attttagttt 360
 200 tggtaaaaaaa aaaaaaaaaaaa aaa 383
 203 <210> SEQ ID NO: 8
 204 <211> LENGTH: 88
 205 <212> TYPE: PRT
 206 <213> ORGANISM: Zea mays
 209 <220> FEATURE:
 210 <221> NAME/KEY: MISC_FEATURE
 211 <223> OTHER INFORMATION: MEG1-2
 213 <400> SEQUENCE: 8
 215 Met Glu Tyr Arg Lys Arg Val Asp Ala Leu Val Phe Phe Ser Leu Leu
 216 1 5 10 15
 219 Leu Leu Gly Tyr Phe Ala Ala His Ala His Gly Lys Gly His Val Thr
 220 20 25 30
 223 Asp Asp Val Gly Val Ser Thr Pro Ala Lys Glu Gly Ile Met Gln Gly
 224 35 40 45
 227 Asn Gly Ala Arg Cys Val Val Gly Phe Pro Pro Cys Lys Asp Asn Lys
 228 50 55 60
 231 Cys Tyr Cys Cys Ile Gly Gly Arg Thr His Ala Arg Tyr Ser Thr Met
 232 65 70 75 80
 235 Ala Glu Cys Arg His Ala Cys Phe
 236 85
 239 <210> SEQ ID NO: 9
 240 <211> LENGTH: 786
 241 <212> TYPE: DNA
 242 <213> ORGANISM: Zea mays

RAW SEQUENCE LISTING

DATE: 05/16/2006

PATENT APPLICATION: US/10/578,126

TIME: 09:31:47

Input Set : A:\11887-8 US Sequence Listing.txt
 Output Set: N:\CRF4\05162006\J578126.raw

245 <220> FEATURE:
 246 <221> NAME/KEY: misc_feature
 247 <223> OTHER INFORMATION: MEG1-3 cDNA
 249 <400> SEQUENCE: 9

250	ggcacgagga	ggagttcctt	aaatttctt	gacatgga	gtacagaaag	agggtggatg	60										
252	cgttagtgtt	tttctcgta	ctcctcctca	gatacttgc	tgctcatgca	catgggaagg	120										
254	gtaaagtgcta	ctgctgcatt	gggggcgatg	taggttcc	tccatgcaaa	gataacaagt	180										
256	gctactgctg	cattgggggg	cgaactcatg	ctcgctactc	tacgctggct	gagtgtagtc	240										
258	atgcctgctt	ctaaacaaaa	attaagatca	ctgttattat	atacattgta	atggtaggta	300										
260	atgctattaa	taatatatgg	gaattttagt	tttggtatta	tacttttc	caattcacga	360										
262	aataccttct	aaaacctggc	gtgacagggt	gcatacgagg	agtggagggc	agcagacggct	420										
264	gcacagcgct	gcatgcagt	gcttgcattt	gtagctcctc	gttggcgatg	cgtgtgcgac	480										
266	caagagctct	cggcacagac	aggtcatgtc	acagatgatg	tcggagttc	tactccagct	540										
268	aaagaaggaa	ttatgcaagg	aaacggagca	cgatgcgtat	tagggttcc	tccatgcaaa	600										
270	gataacaagt	gctactgctg	cattgggggg	cgaactcatg	ctcgctactc	tacgctggct	660										
272	gagtgtagtc	atgcctgctt	ctaaacaaaa	attaagatca	ctgttattat	atacattgta	720										
274	atgggttaggt	aatgctatta	ataatatatg	ggaatttaag	ttttggtatt	aaaaaaaaaa	780										
276	aaaaaaa						786										
279	<210> SEQ ID NO: 10																
280	<211> LENGTH: 72																
281	<212> TYPE: PRT																
282	<213> ORGANISM: Zea mays																
285	<220> FEATURE:																
286	<221> NAME/KEY: MISC_FEATURE																
287	<223> OTHER INFORMATION: MEG1-3, first ORF																
289	<400> SEQUENCE: 10																
291	Met	Glu	Tyr	Arg	Lys	Arg	Val	Asp	Ala	Leu	Val	Phe	Phe	Ser	Leu	Leu	
292	1				5				10					15			
295	Leu	Leu	Arg	Tyr	Phe	Ala	Ala	His	Ala	His	Gly	Lys	Gly	Lys	Cys	Tyr	
296					20				25					30			
299	Cys	Cys	Ile	Gly	Gly	Asp	Val	Gly	Phe	Pro	Pro	Cys	Lys	Asp	Asn	Lys	
300					35				40					45			
303	Cys	Tyr	Cys	Cys	Ile	Gly	Gly	Arg	Thr	His	Ala	Arg	Tyr	Ser	Thr	Leu	
304		50						55						60			
307	Ala	Glu	Cys	Ser	His	Ala	Cys	Phe									
308	65				70												
311	<210> SEQ ID NO: 11																
312	<211> LENGTH: 667																
313	<212> TYPE: DNA																
314	<213> ORGANISM: Zea mays																
317	<220> FEATURE:																
318	<221> NAME/KEY: misc_feature																
319	<223> OTHER INFORMATION: MEG1-4 cDNA																
321	<400> SEQUENCE: 11																
322	aagaccacca	cccttgcga	atccggcacc	catgccatgc	ccacttccac	cggcaaggcc	60										
324	atcgccgccc	ccaagaccac	cacccttgc	gaatccggca	cccatgc	gtccacttcc	120										
326	accaccaagg	ccccccgcgc	caccagcacc	gtagccacta	ccggcgccaa	gaccaccacc	180										
328	gcctttgcgg	aatccaccac	ccatgccatg	cccaattcca	ccaccttgc	catggcctcc	240										
330	accatgcca	tggccatgt	cgcctccgag	tccgcccac	ttgcccata	caccaccaag	300										

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/578,126

DATE: 05/16/2006

TIME: 09:31:47

Input Set : A:\11887-8 US Sequence Listing.txt

Output Set: N:\CBF4\05162006\J578126.raw

332	gccaccgcct	tttcttaaat	tgtcttgca	catggagttac	agaaagaggg	tggatgcgt	360
334	agtgttttc	tcgttacttc	tcctcgata	ctttgctgct	catgcacatg	gaaaggctaa	420
336	agaaggaatt	atgcaaggaa	acggagcacg	atgcgttgc	gggtttcctc	catgcaaaga	480
338	taacaagtgc	tactgtgca	ttggggggcg	aactcatgct	cgctactcta	cgatggctga	540
340	gtgtgtcat	gcctgtttct	aaacaaaaat	taagatcgat	gttattatat	aaattgtaat	600
342	ggttaggtat	gctattaata	atatatggga	attttagttt	tggttaattaa	aaaaaaaaaa	660
344	aaaaaaaa						667

347 <210> SEQ ID NO: 12

348 <211> LENGTH: 76

349 <212> TYPE: PRT

350 <213> ORGANISM: *Zea mays*

353 <220> FEATURE:

354 <221> NAME/KEY: MISC FEATURE

355 <223> OTHER INFORMATION: MEG1-4

357 <400> SEQUENCE: 12

```

359 Met Glu Tyr Arg Lys Arg Val Asp Ala Leu Val Phe
360 1 5 10
363 Leu Leu Gly Tyr Phe Ala Ala His Ala His Gly Lys
364 20 25
367 Ile Met Gln Gly Asn Gly Ala Arg Cys Val Val Gly
368 35 40
371 Lys Asp Asn Lys Cys Tyr Cys Cys Ile Gly Gly Arg
372 50 55 60
375 Tyr Ser Thr Met Ala Glu Cys Ser His Ala Cys Phe
376 65 70 75

```

379 <210> SEQ ID NO: 13

380 <211> LENGTH: 621

381 <212> TYPE: DNA

382 <213> ORGANISM: Zea mays

385 <220> FEATURE:

386 <221> NAME/KEY: misc feature

387 <223> OTHER INFORMATION: MEG1-5 cDNA

389 <400> SEQUENCE: 13

```

390 tgcaggatg gctggctatg gtgttcatgg tcagcgtatg atgggtgttgg ttggtatgg 60
392 cagcagaggg atggatatg gtggcagacc tgagccacct cttccgcctt atgcatcaag 120
394 cactctatat attgagggtt tacctgcaaa ctgcacacga cgggagggtt cacatataatt 180
396 tcgcccattt gttggtttc gtgaagttcg tcttgcacac aaggagttca gacatcctgg 240
398 tggagatcca catgtgttgc gtttcgtcga ttttgacaac cctgctcagg ctacaattgc 300
400 tctggaagca ttacaagggtc atgtcacggg tgatgtcaat gtttctgctc cagctgaaga 360
402 aggaattttg cgagaaaaaa gagcacaatg cgctcaaggg tttcttccat gcaaagataa 420
404 caagtgtac tgggtcattt gggggccgaaac tcatgattgc tactatacga tggctcagtg 480
406 tagtcatgca tgcttctaat caaaaattaa gatcactgtt ttttatataca atgtaatgg 540
408 aggcaatgtc attaataata cataagggaa ttttattttt gtagttagaaat ttttctgatt 600
410 gacgaaaaaa aaaaaaaaaa a 621
413 <210> SEQ ID NO: 14
414 <211> LENGTH: 142
415 <212> TYPE: PRT
416 <213> ORGANISM: Zea mays
419 <220> FEATURE:

```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/16/2006
PATENT APPLICATION: US/10/578,126 TIME: 09:31:48

Input Set : A:\11887-8 US Sequence Listing.txt
Output Set: N:\CRF4\05162006\J578126.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:20; Xaa Pos. 2,3,4,5,10,11,12,13,14,15,16,17,19,20,21,22,24,25,26

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40

Seq#:41,42,43,44,45,46,47,48,49,50,54,55,56,57,59,60,61,63,64

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/578,126

DATE: 05/16/2006

TIME: 09:31:48

Input Set : A:\11887-8 US Sequence Listing.txt
Output Set: N:\CRF4\05162006\J578126.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0

L:593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:16